AMENDMENT TO THE SPECIFICATION

Please amend paragraph [0003] as follows:

[0003] With the multiband fluorescence microscope, the user frequently confronts the problem that the different fluorescence bands in the microscopic image have varying intensities and are not uniformly visible. The cause lies frequently in the difference in excitation intensities in the illumination beam path or even in the varying blockage of the fluorescence intensities by a barrier filter in the imaging beam path. Also, different concentrations of the fluorescence ~~die~~ dye for the different excitation bands, even when staining the objects to be considered, or the progressive bleaching of the dye, the so-called fading, lead to differing intensities of the fluorescence bands in the microscopic image. The different intensities of the fluorescence bands prove to be especially problematic then if the microscopic image is to be photographically recorded. Then the portion of the fluorescent light of weak intensity on the photo is too weakly reproduced or is not visible at all. Only with intensities of the fluorescence bands that are as uniform as possible can there be defect-free photos of the microscopic image.

Please amend paragraph [0022] as follows:

[0022] Even after optimal setting of the fluorescence intensities by applying the method according to the invention using a specified multiband fluorescence microscope, deviations of the fluorescence intensities from the setpoint values reoccur after some time. This is attributable to the fact that the various fluorescence dyes

A2 end for the various excitation bands fade ~~a~~ at differing rates, i.e., they exhibit a specific fading.